

05-28-04

J. Ekwuribe
DA C
(S) A/D
J. Ekwuribe
PATENT

Attorney Docket No. 9233-14IP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Ekwuribe

Application Serial No.: 10/811,760

Filed: March 29, 2004

For: *Drug-Oligomer Conjugates*

Date: May 27, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT CITATION UNDER 37 C.F.R. § 1.97

Sir:

Attached are ten sheets of form PTO-1449 as submitted in parent application serial no. 09/474,915, filed December 31, 1999, with the parent application serial no., attorney docket no., filing date and art unit crossed out and the current attorney docket no. written in. Also attached is a form PTO-1449, providing a list of documents 1-22. Documents 1-3 have previously made of record in application serial number 09/474,915. Because these references have already been made of record in the parent application, a copy of each of these references is not provided herein. However, applicants will provide a copy of any such reference cited herein upon request from the Examiner. Copies of documents 4-22 are enclosed. Applicants respectfully request that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. §1.97 and Section 609 of the MPEP.

No fee is believed due. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment, to Deposit Account No. 50-0220.

Respectfully submitted,

Mary L. Miller
Registration No. 39,303

USPTO Customer No. 20792
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CERTIFICATE OF EXPRESS MAILING

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Date of Deposit: May 27, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Cathy A. Schetzina

FORM PTO-1449	US Dept. of Commerce Patent and Trademark Office	ATTORNEY DOCKET NO. <i>4012-122 923.14IP</i>	SERIAL NO. <i>89/474,915 10/811,760</i>
INFORMATION DISCLOSURE STATEMENT <i>O I P E</i> (use several sheets if necessary) <i>MAY 27 2004</i>		APPLICANT Nnochiri Ekwuribe et al.	
		FILING DATE <i>December 31, 1999 March 29, 2004</i>	GROUP Not Yet Assigned

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA 5,407,683	18 Apr. 1995	Shively, Merrick L.	424	439		
	AB 5,422,364	6 Jun. 1995	Nicolaou, et al.	514	449		
	AC 5,439,686	8 Aug. 1995	Desai et al.	424	451		
	AD 5,484,809	16 Jan. 1996	Hostetler et al.	514	449		
	AE 5,560,933	1 Oct 1996	Soon-Shiong et al.	424	489		
	AF 5,608,087	4 Mar. 1997	Nicolaou et al.	549	510		
	AG 5,795,909	18 Aug. 1998	Shashoua et al.	514	449		
	AH 5,817,840	6 Oct. 1998	Nicolaou et al.	549	510		
	AI 5,932,462	2 Aug. 1999	Harris et al.	435	188		

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
	AJ	WO 97/33552	18 Sep. 1997	PCT				
	AK	WO 98/58927	30 Dec. 1998	PCT				

OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)

AL	Adams, Jonathan D., et al. "Taxol: A History of Pharmaceutical Development and Current Pharmaceutical Concerns." J. Natl Cancer Inst Monographs (1993) 15: 141-147
AM	Arbuck, S.G. "Taxol (paclitaxel): Future directions." Annals of Oncology (1994) 5(Suppl 6): S59-S62
AN	Beijnen, Jos H., et al. "Bioanalysis, Pharmacokinetics, and Pharmacodynamics of the Novel Anticancer Drug Paclitaxel (Taxol)." Sem in Oncology (1994) 21 (5) (Suppl 8 October) 53-62
AO	Deutsch, H.M., et al. "Synthesis of Congeners and Prodrugs. 3. Water-Soluble Prodrugs of Taxol with Potent Antitumor Activity." J Medicinal Chem (1989) 32: 788-792
AP	Greenwald, R.B., et al. "Drug Delivery Systems: Water Soluble Taxol 2'-Poly(ethylene) glycol) Ester Prodrugs - Design and <i>in Vivo</i> Effectiveness." J. Medicinal Chem (1996) 39:424-431
AQ	Greenwald, R.B. et al. "Highly Water Soluble Taxol Derivatives: 7-Polyethylene Glycol Carbamates and Carbonates." J Org Chem (1995) 60: 331-336

Continue on page 2

Examiner	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number 9233.14IP	Serial No. 10/811,760
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)			
O P E JC108 MAY 27 2004 PATENT & TRADEMARK OFFICE			
	16.	U.S. Patent Application No. 10/774,903, entitled "Amphiphilic Drug-Oligomer Conjugates with Hydrolyzable Lipophile Components and Methods for Making and Using the Same" filed February 9, 2004	
	17.	U.S. Patent Application No. 10/808,044, entitled "Amphiphilic Prodrugs" filed March 24, 2004	
	18.	U.S. Patent Application No. 10/395,548, entitled "Taxane Prodrugs" filed March 24, 2003	
	19.	U.S. Patent Application No. 09/429,798, entitled "Blood-Brain Barrier Therapeutics" filed October 29, 1999	
	20.	U.S. Patent Application No. 09/430,735, entitled "Methods of Inducing Analgesia" filed October 29, 1999	
	21.	U.S. Patent Application No. 10/716,975, entitled "Methods of Activating Receptor Using Amphiphilic Drug-Oligomer Conjugates" filed November 19, 2003	
	22.	U.S. Patent Application No. 10/716,578, entitled "Methods of Altering the Binding Affinity of a Peptide to its Receptor" filed November 11, 2003	
		Filing Date: March 29, 2004	Group

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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket Number 9233.14 IP		Serial No. <u>09/474,915</u> <u>10/811,760</u>	
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Applicants: Ekwuribe, et al.			
				Filing Date: <u>December 31, 1999</u> <u>March 29, 2004</u>		Group Art Unit: <u>1623</u>	
U. S. PATENT DOCUMENTS							
Examiner Initial	TRADEMARK OFFICE	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	O I P E	MAY 27 2004					
1.							
2.							
3.							
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	1.	WO 96/23794	8/8/96	PCT	C07D	491/22	
	2.	WO 97/33552	9/18/97	PCT	A61K	5/00	
	3.	WO 98/07713	2/26/98	PCT	C07D	305/14	
	4..	WO 99/30727	6/24/99	PCT	A61K	38/00	
	5.	WO 00/64486	11/2/00	PCT	A61K	47/48	
	6.	WO 01/19407	3/22/01	PCT	A61K	47/48	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	1.	Greenwald et al., "Drug Delivery of Anticancer Agents: Water Soluble 4-Poly (Ethylene Glycol) Derivatives of the Lignan, Podophyllotoxin," <i>Journal of Controlled Release</i> , 61:281-294 (1999).					
	2.	International Search Report corresponding to International Application No. PCT/US 00/24520; Date of mailing: July 31, 2001.					

EXAMINER _____

DATE CONSIDERED

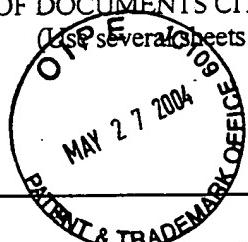
EXAMINER Initial if reference considered whether or not citation is in conformance with 37 CFR 1.56

**FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office**

Attorney Docket Number
9233.14 IP

Serial No.
09/474,915
10/811,760

LIST OF DOCUMENTS CITED BY APPLICANT
(use several sheets if necessary)



Applicants: Ekwuribe, et al.

Filing Date: December 31, 1999
March 29, 2004

Group Art
Unit: 1623

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No

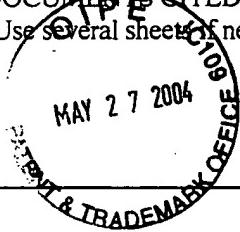
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1.	Chabner et al., "Antineoplastic Agents: Epipodophyllotoxins," <i>Goodman & Gilman's The Pharmacological Basis of Therapeutics</i> , Ed. Hardman et al., Ninth Edition, Chapter 51, 1261-1262 (McGraw-Hill, 1996).

EXAMINER

DATE CONSIDERED

EVALUATED Initial if reference considered whether or not citation is in conformance with MPEP 600. draw line

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket Number 9233.14 IP	Serial No. 09/474,915 10/814,760		
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Applicants: Ekwuribe, et al. Filing Date: December 31, 1999 <i>March 29, 2004</i>			
 U. S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	1.	5,122,614	06/16/92	Zalipsky	548	520	
	2.	5,219,564	06/15/93	Zalipsky et al.	424	78.17	
	3.	5,298,643	03/29/94	Greenwald	558	6	
	4.	5,321,095	06/14/94	Greenwald	525	404	
	5.	5,324,844	06/28/94	Zalipsky	548	520	
	6.	5,349,001	09/20/94	Greenwald et al.	525	408	
	7.	5,405,877	04/11/95	Greenwald et al.	514	772.3	
	8.	5,455,027	10/03/95	Zalipsky et al.	424	78.17	
	9.	5,547,981	08/20/96	Greenwald et al.	514	449	
	10.	5,567,422	10/22/96	Greenwald	424	78.3	
	11.	5,612,460	03/18/97	Zalipsky	530	391.9	
	12.	5,614,549	03/25/97	Greenwald et al.	514	449	
	13.	5,622,986	04/22/97	Greenwald et al.	514	449	
	14.	5,637,749	06/10/97	Greenwald	558	6	
	15.	5,643,575	07/01/97	Martinez et al.	424	194.1	
	16.	5,681,567	10/28/97	Martinez et al.	424	178.1	
	17.	5,730,990	03/24/98	Greenwald et al.	424	279.1	
	18.	5,756,593	05/26/98	Martinez et al.	525	403	
	19.	5,808,096	09/15/98	Zalipsky	548	520	
	20.	5,824,701	10/20/98	Greenwald et al.	514	449	
	21.	5,902,588	05/11/99	Greenwald et al.	424	278.1	
	22.	5,919,455	07/06/99	Greenwald et al.	424	178.1	
	23.	5,965,119	10/12/99	Greenwald et al.	424	78.37	
	24.	5,965,566	10/12/99	Greenwald et al.	514	279	
	25.	6,011,042	01/04/00	Greenwald et al.	514	283	
	26.	6,111,107	08/29/00	Greenwald et al.	546	48	

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DATE CONSIDERED



Substitute form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	09/474,975 10/811,760
Filing Date	December 31, 1999 March 29, 2004
First Named Inventor	Nnochiri N. Ekwuribe
Group Art Unit	1623
Examiner Name	Leigh Maier

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December 31, 1999

Nnochiri N. Ekwuribe

1622

Leigh Maier

0233-14TP

U.S. PATENTS AND PATENT PUBLICATIONS

FOREIGN PATENT DOCUMENTS

OTHER NON PATENT LITERATURE DOCUMENTS

Examiner Signature _____ Date Considered _____

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket Number 9233.14IP		Serial No. <i>09474,915- 10/81,760</i>	
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Applicants: Ekwuribe, et al.			
				Filing Date: December 31, 1999 <i>March 29, 2004</i>		Group Art Unit: 1623	
	27.	6,113,906	10/05/00	Greenwald et al.	424	194.1	
	28.	6,127,355	10/03/00	Greenwald et al.	514	183	
	29.	6,153,655	11/28/00	Martinez et al.	514	772.3	
	30.	6,177,087	01/23/01	Greenwald et al.	424	278.1	
	31.	6,180,095	01/30/01	Greenwald et al.	424	85.1	
	32.	6,194,580	02/27/01	Greenwald et al.	546	48	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							

FORM PTO-1449		US Dept. of Commerce Patent and Trademark Office		ATTORNEY DOCKET NO.		SERIAL NO.	
				4012-122 9233.14IP		09/474,915-19811,760	
INFORMATION DISCLOSURE STATEMENT <i>O I P E</i> (use several sheets if necessary) MAY 27 2004				APPLICANT			
				Nnochiri Ekwuribe et al.			
		FILING DATE		March 29, 2004		GROUP	
				December 31, 1999		Not Yet Assigned	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL [REDACTED]	PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)							
AR	Horwitz, S.B. "TAXOL (paclitaxel): Mechanisms of action." Annals of Oncology (1994) 5 (Suppl.6): S3-S6.						
AS	Kingston, David G.I. "Taxol: the chemistry and structure-activity relationships of a novel anticancer agent." TIBTECH (June 1994) 12: 222-227						
AT	Kingston, David G.I. "The chemistry of Taxol." Pharmac Ther (1991) 52: 1-33						
AU	Kohler, David R., et al. "Paclitaxel (Taxol)." (1994) Pharmacotherapy 14 (1): 3-34						
AV	Long, Harry J. "Paclitaxel (Taxol): A Novel Anticancer Chemotherapeutic Drug." Mayo Clin Proc (1994) 69: 341-345						
AW	Parekh, H. et al. "The Transport and Binding of Taxol." Gen Pharmac (1997) 29 (2): 167-172						
AX	Preston, N.J. "Paclitaxel (Taxol) - a guide to administration." European J of Cancer Care (1996) 5: 147-152						
AY	Rowinsky, Eric K. et al. "The Clinical Pharmacology and Use of Antimicrotubule Agents in Cancer Chemotherapy." Pharmac Ther (1991) 52: 35-84						
AZ	Rowinsky, Eric K. et al. "Taxol: The First of the Taxanes, an Important New Class of Antitumor Agents." Seminars in Oncology (1992 Dec) 19(6): 646-662						
BA	Rowinsky, Eric K. et al. "Taxol: Pharmacology, Metabolism and Clinical Implications." Cancer Surveys (1993) 17: 283-304						
BB	Straubinger, Robert M. et al. "Novel Taxol Formulations: Taxol-Containing Liposomes." J Nat Cancer Inst Monographs (1993) No.15: 69-78						
BC	Workman, Paul. "Pharmacokinetics and Cancer: Successes, Failures and Future Prospects." Cancer Surveys (1993) 17: 1-26						
BD	Delgado et al. "The Uses and Properties of PEG-Linked Proteins". <i>Critical Review in Therapeutic Drug Carrier Systems</i> , 9(3, 4):249-304 (1992).						
Continued on page 3							
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U. S. PATENT DOCUMENTS							
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	1.	5,681,811	10/28/1997	Ekwuribe			
	2.	6,380,405	04/30/2002	Ekwuribe			
	3.	6,310,039	10/30/2001	Kratz			
	4.	6,713,454	03/30/2004	Ekwuribe			
	5.	6,309,633	10/30/2001	Ekwuribe			
	6.	6,703,381	03/09/2004	Ekwuribe			
	7.	6,541,508	04/01/2003	Ekwuribe			
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	8.	772074	11/10/2000	AU			
	9.	WO 01/19406	03/22/2001	PCT			
	10.	WO 00/78302	12/28/2000	PCT			
	11.	WO 00/09073	02/24/2000	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	12.	U.S. Provisional Application No. 60/153,649, entitled "Amphiphilic Prodrugs," filed September 13, 1999.					
	13.	U.S. Provisional Application No. 60/153,579, entitled "Taxane Prodrugs," filed September 13, 1999					
	14.	U.S. Patent Application No. 10/018,879, entitled "Amphiphilic Insulin-Oligomer Conjugates with Hydrolyzable Lipophile Components," filed August 5, 2002					
	15.	International Search Report Corresponding to International Application No. PCT/US 00/24523; Date of Mailing: August 6, 2001					

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FORM PTO-1449 US Dept. of Commerce Patent and Trademark Office		ATTORNEY DOCKET NO. <u>4012-T22 9233.14IP</u>		SERIAL NO. <u>09/474,915 10/811,760</u>			
INFORMATION DISCLOSURE STATEMENT <small>(use several sheets if necessary)</small>		APPLICANT Nnochiri Ekwuribe et al.					
		FILING DATE <u>March 29, 2004</u>	GROUP				
		<u>December 31, 1999</u>	Not Yet Assigned				
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FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS		
BU	WO 94/04484	3 Mar 94	PCT			X	
BV	WO 94/12463	June 94	PCT			X	
OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)							
BW	Simon Joel "Antitumour Treatment; The Clinical Pharmacology of Etoposide: an update". <i>Cancer Treatment Reviews</i> (1996) 22, 179-221.						
BX	"Epipodophyllotoxins". Chapter 51 Antineoplastic Agents. 1261-1262.						
Continue on page _____							
Examiner						DATE CONSIDERED	



FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number
9233.14 IP

Serial No.
09/474,915

10/811,760

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March 29, 2004

Group Art
Unit: 1623

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	1.	WO93/24476	12/09/93	PCT			
	2.	WO94/20453	09/15/94	PCT			
	3.	07082291	03/28/95	JP			X-Abstract
	4.	0 895 784 A1	02/10/99	EP			
	5.	WO99/48536	09/30/99	PCT			
	6.	WO01/13957	03/01/01	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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